ABSTRACT

In an optical recording medium comprising a grooved light-transparent substrate, a phase change recording layer, a dielectric layer and a reflective layer, recording is carried out by irradiating a laser beam to the recording layer through an objective lens in an optical system. The recording is carried out in the grooves under the conditions: $0.48 \leq P_T/(\lambda/NA) \leq 0.74$, and $P_T \leq 0.50~\mu\text{m}$ wherein λ is a laser beam wavelength, NA is an objective lens numerical aperture, and P_T is a track pitch, thereby forming a recorded mark having opposite ends extending out of the groove. This enables high density recording and increases the data transfer rate of a phase change optical recording medium.